Title (en)

CONVERSION OF SOLID WASTE INTO SYNGAS AND HYDROGEN

Title (de)

UMWANDLUNG VON FESTEM ABFALL IN SYNTHESEGAS UND WASSERSTOFF

Title (fr)

CONVERSION DE DÉCHETS SOLIDES EN GAZ DE SYNTHÈSE ET EN HYDROGÈNE

Publication

EP 3992268 B1 20230301 (EN)

Application

EP 20204801 A 20201029

Priority

EP 20204801 A 20201029

Abstract (en)

[origin: EP3992268A1] The method and plant 1 for conversing solid recovered fuel pellets 117 made from municipal solid waste 103 allow the transformation of the municipal solid waste 103 into hydrogen with a high yield instead of landfilling or incinerating the municipal solid waste 103. The hydrogen rich product gas stream 601 can be used as feedstock for chemical reactions or for storing energy in a releasable manner.

IPC 8 full level

C10K 1/00 (2006.01); **C01B 3/00** (2006.01); **C01B 3/50** (2006.01); **C01B 3/56** (2006.01); **C10J 3/46** (2006.01); **C10J 3/62** (2006.01); **C10K 3/04** (2006.01); **C10L 3/10** (2006.01); **C10L 5/48** (2006.01); **C10L 9/08** (2006.01)

CPC (source: EP IL KR US)

C01B 3/12 (2013.01 - US); **C01B 3/56** (2013.01 - EP IL KR US); **C10J 3/466** (2013.01 - EP IL KR US); **C10J 3/62** (2013.01 - EP IL KR); **C10K 1/004** (2013.01 - EP IL KR); **C10K 1/005** (2013.01 - EP IL KR); **C10K 3/04** (2013.01 - EP IL KR); **C10L 9/083** (2013.01 - IL US); C01B 2203/0283 (2013.01 - EP IL KR US); C01B 2203/042 (2013.01 - EP IL KR); C01B 2203/043 (2013.01 - EP IL KR US); C01B 2203/0475 (2013.01 - EP IL KR US); C01B 2203/0485 (2013.01 - EP IL KR US); C10J 2300/0906 (2013.01 - EP IL KR US); C10J 2300/0909 (2013.01 - EP IL KR US); C10J 2300/0916 (2013.01 - EP IL KR); C10J 2300/0946 (2013.01 - EP IL KR US); C10L 9/083 (2013.01 - EP KR); C10L 2200/0277 (2013.01 - EP IL KR); C10L 2290/02 (2013.01 - EP IL KR); C10L 2290/04 (2013.01 - EP IL KR US); C10L 2290/08 (2013.01 - EP IL KR US); C10L 2290/10 (2013.01 - EP IL KR US); C10L 2290/12 (2013.01 - EP IL KR); C10L 2290/28 (2013.01 - EP IL KR US); C10L 2290/30 (2013.01 - EP IL KR); C10L 2290/40 (2013.01 - EP IL KR); C10L 2290/542 (2013.01 - EP IL KR); C10L 2290/545 (2013.01 - EP IL KR); Y02E 50/10 (2013.01 - EP IL KR); Y02E 50/30 (2013.01 - EP IL KR); Y02E 60/30 (2013.01 - KR); Y02E 60/32 (2013.01 - EP IL); Y02E 60/36 (2013.01 - KR); Y02P 20/145 (2015.11 - EP IL KR); Y02P 30/00 (2015.11 - EP IL KR)

Citation (examination)

WO 2019054868 A1 20190321 - TORRGAS TECH B V [NL]

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EP4159831A1; WO2023052073A1; EP4116657A1; WO2023280565A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3992268 A1 20220504; **EP 3992268 B1 20230301**; AU 2021367829 A1 20230525; CA 3194920 A1 20220505; CL 2023001208 A1 20231215; CN 116390892 A 20230704; DK 3992268 T3 20230327; ES 2940807 T3 20230511; FI 3992268 T3 20230523; HR P20230473 T1 20230721; HU E061386 T2 20230628; IL 302296 A 20230601; JP 2023548607 A 20231117; KR 20230095058 A 20230628; LT 3992268 T 20230327; MA 59677 A1 20230628; MA 59677 B1 20231031; MX 2023004961 A 20231019; PL 3992268 T3 20230619; PT 3992268 T 20230313; RS 64117 B1 20230428; SI 3992268 T1 20230428; US 11952277 B2 20240409; US 2023303393 A1 20230928; WO 2022090118 A1 20220505; ZA 202303486 B 20240626

DOCDB simple family (application)

EP 20204801 A 20201029; AU 2021367829 A 20211025; CA 3194920 A 20211025; CL 2023001208 A 20230426; CN 202180071222 A 20211025; DK 20204801 T 20201029; EP 2021079462 W 20211025; ES 20204801 T 20201029; FI 20204801 T 20201029; HR P20230473 T 20201029; HU E20204801 A 20201029; IL 30229623 A 20230420; JP 2023527704 A 20211025; KR 20237010147 A 20211025; LT 20204801 T 20201029; MA 59677 A 20211025; MX 2023004961 A 20211025; PL 20204801 T 20201029; PT 20204801 T 20201029; RS P20230274 A 20201029; SI 202030173 T 20201029; US 202118250458 A 20211025; ZA 202303486 A 20230310